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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,960 01/17/2001		01/17/2001	Magnus Hallenstal	27943-00409USP1	7006
27045	7590	06/04/2004		EXAMINER	
ERICSSO 6300 LEG		F	VOLPER, THOMAS E		
	M/S EVR C11				PAPER NUMBER
PLANO, TX 75024				2665	. 8
				DATE MAILED: 06/04/2004	· ·

Please find below and/or attached an Office communication concerning this application or proceeding.

·						
	Application No.	Applicant(s)				
Office Action Summary	09/764,960	HALLENSTAL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thomas Volper	2665				
The MAILING DATE of this communication app Period for Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_ •					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.	4)⊠ Claim(s) 1-40 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-40</u> is/are rejected.						
7) ☐ Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	• •	<u> </u>				
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5 and 6</u>. 	Paper No(s)/Mail Da					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-17, 19-31 and 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Holler et al. (WO 98/28884).

Regarding claims 1, 8, 17, 20, 21, 23, 25, 26, 34 and 35, Holler discloses an arrangement comprising a narrowband component including switching intelligence and narrowband switching fabric, a broadband component including broadband switching fabric, wherein the arrangement is capable of terminating an incoming side and an outgoing side of a first communication at the narrowband component, and the arrangement is capable of terminating an incoming side of a second communication at the narrowband component and an outgoing side of the second communication at the broadband component (see Figures 2 and 4; pages 6-9). The Narrowband Call Control and Virtual Switch (213) meets the limitation of a narrowband component and the Switch Emulator Function (217) meets the limitation of a broadband component. Together, components (213) and (217) meet the limitation of a logical node with a circuit-based switch and a packet-based switch. As can be seen in Figure 2, the logical node represented by narrowband component (213) and broadband component (217) may receive and forward communications in

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either a narrowband format or broadband format to another logical node, represented by (215) and (219).

Regarding claims 2, 11 and 12, Holler discloses that a broadband component, which also meets the limitation of a packet-based switch, may terminate incoming and outgoing sides of a communication (see Figure 2; page 9, top paragraph).

Regarding claims 3, 15, 22 and 36, Holler discloses that value added services may be invoked while connecting a call (page 8, middle of page).

Regarding claim 4, Holler discloses that the broadband component relies on the switching intelligence of the narrowband component (page 6 – page 7).

Regarding claims 5 and 19, Holler discloses narrowband switches, which act as STM switches, and ATM switches, which are broadband switches (page 6, 2nd and 3rd paragraphs).

Regarding claims 9, 13, 14 and 16, Holler discloses that any combination of narrowband and broadband across the network (401) is possible (see Figure 4).

Regarding claims 6 and 10, Holler discloses a Switch Emulator Function (217) that meets the limitation of at least one circuit emulator.

Regarding claim 7, Holler discloses that the broadband component emulates a circuit connection (page 6 – page 7).

Regarding claim 24, Holler discloses that the nodes may send instructions concerning routing information to each other (page 8 – page 9).

Regarding claim 27, Holler discloses receiving a communication having an identifier that corresponds to a destination terminal wherein that communication is on a broadband transport mechanism (page 8, bottom paragraph).

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Regarding claim 28, Holler discloses receiving a communication having an identifier that corresponds to a destination terminal wherein that communication is on a narrowband transport mechanism (page 8, middle of page).

Regarding claim 29, Holler discloses an identifier comprising a B-channel, which meets the limitation of a B-number (page 9 – page 10).

Regarding claims 30, 31 and 33, Holler discloses using routing tables to discover a routing path VT13 through the ATM network, which is a Bearer Services Network (BSN) between a narrowband terminal and narrowband network (see Figure 4; page 7, bottom paragraph).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holler et al. (WO 98/28884) in view of Allen, Jr. et al. (US 2001/0017861).

Regarding claim 37, Holler discloses terminating a narrowband inbound side of a communication at a circuit-switch, switching the communication by the circuit-switch and terminating a narrowband outbound side of the communication at the switch. Holler also discloses terminating a narrowband inbound side of a communication at the circuit-switch, switching the communication by the circuit-switch, switching the communication by a packet

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switch, and terminating an ATM outbound side of the communication at the packet switch (see Figures 2-6; pages 6-9). Holler fails to expressly disclose that the narrowband side of a communication is a TDM side of a communication. Allen, Jr. discloses that TDM may be a form of narrowband communication (paragraph [0026]). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to include TDM as a narrowband form of communication in the invention of Holler. One of ordinary skill in the art would have been motivated to do this in order to provide the transparent narrowband based telephony services of Holler to a greater number of narrowband users.

Regarding claims 38 and 40, Holler discloses that the logical node represented by narrowband component (213) and broadband component (217) may receive and forward communications in either a narrowband format or broadband format to another logical node, represented by (215) and (219), as can be seen in Figure 2.

Regarding claims 39, Holler discloses that value added services may be invoked while connecting a call (page 8, middle of page).

5. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holler et al. (WO 98/28884) as applied to claims 1-17, 19-31 and 33-36 above, and further in view of Allen, Jr. et al. (US 2001/0017861).

Regarding claim 18, Holler fails to expressly disclose that the narrowband side of a communication is a TDM side of a communication. Allen, Jr. discloses that TDM may be a form of narrowband communication (paragraph [0026]). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to include TDM as a narrowband form

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of communication in the invention of Holler. One of ordinary skill in the art would have been motivated to do this in order to provide the transparent narrowband based telephony services of Holler to a greater number of narrowband users.

6. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holler et al. (WO 98/28884).

Regarding claim 32, as described above Holler meets all of the limitations of the claim except for determining a proximity between the network node and the destination terminal. However, shortest path routing algorithms are well known in the art. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to determine the proximity of the node and terminal in order to find the shortest route therebetween. One of ordinary skill in the art would have been motivated to do this in order to perform a more efficient method of communication.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Christie (US 6,643,282) Method, System and Apparatus for Telecommunications
 Control
- La Porta et al. (US 5,434,852) Distributed Processing Architecture for Control of Broadband and Narrowband Communications Networks

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Any inquiry concerning this communication, or earlier communications from the 8.

examiner should be directed to Thomas Volper whose telephone number is 703-305-8405 and

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fax number is 703-746-9467. The examiner can normally be reached between 8:30am and

6:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy Vu, can be reached at 703-308-6602. Any inquiry of a general nature or relating

to the status of this application or proceeding should be directed to the receptionist whose

telephone number is 703-305-4750.

Thomas E. Volper

7B/

June 1, 2004

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**